JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH
PART A: CURRENT ISSUES
Volume 68 Tables of Contents

Volume 68, Issue 1

Potential Toxicity of Nonregulated Asbestiform Minerals: Balangeroite from the Western Alps. Part 1: Identification and Characterization 1
Chiara Groppo, Maura Tomatis, Francesco Turci, Elena Gazzano, Dario Ghigo, Roberto Compagnoni, and Bice Fubini

Potential Toxicity of Nonregulated Asbestiform Minerals: Balangeroite from the Western Alps. Part 2: Oxidant Activity of the Fibers 21
Francesco Turci, Maura Tomatis, Elena Gazzano, Chiara Riganti, Gianmario Martra, Amalia Bosia, Dario Ghigo, and Bice Fubini

Potential Toxicity of Nonregulated Asbestiform Minerals: Balangeroite from the Western Alps. Part 3: Depletion of Antioxidant Defenses 41
Elena Gazzano, Chiara Riganti, Maura Tomatis, Francesco Turci, Amalia Bosia, Bice Fubini, and Dario Ghigo

Bioaccumulation of DDT Pesticide in Cultured Asian Seabass Following Dietary Exposure 51
Stéphane Bayen, Pierre Giusti, Hian Kee Lee, Philip John Barlow, and Jeffrey Philip Obar

A Toxic Extract of the Marine Phytoflagellate *Prymnesium Parvum* Induces Calcium-dependent Release of Glutamate from Rat Brain Synaptosomes 67
Espen Mariussen, George Nicholas Nelson, and Frode Fonnum

Volume 68, Issue 2

Characterization of Thymic Atrophy and the Mechanism of Thymocyte Depletion After In Vivo Exposure to a Mixture of Herbicides 81
Patricia de la Rosa, John B. Barnett, and Rosana Schafer

The Effect of Stress on the Temporal and Regional Distribution of Uranium in Rat Brain After Acute Uranyl Acetate Exposure 99
David S. Barber, Marion F. Ehrich, and Bernard S. Jortner.

Effects of Lead-contaminated Sediment and Nutrition on Mallard Duckling Behavior and Growth 113
Erika K. Douglas-Stroebel, Gwenda L. Brewer, and David J. Hoffman

Impact of Consumption of Freshwater Fish on Mercury Levels in Hair, Blood, Urine, and Alveolar Air 129
Cecilia Johnsson, Andrejs Schütz, and Gerd Sällsten

Acute Toxicity of Isopropyl Methylphosphonic Acid, a Breakdown Product of Sarin, to Eggs and Fry of Golden Shiner and Channel Catfish 141
Chris C. Green, Steve E. Lochmann, and David L. Straus

Volume 68, Issue 3

Persistent Organic Pollutants and Heavy Metals in Typical Seafoods Consumed in Singapore 151
Stéphane Bayen, Elena Koroleva, Hian Kee Lee, and Jeffrey Philip Obbard

Influence of Polychlorinated Biphenyls and Turning Preference on Striatal Dopamine Metabolism 167
Nikolay M. Filipov, David A. Lawrence, and Richard F. Seegal

Measurement of the Release of Inflammatory Mediators from Rat Alveolar Macrophages and Alveolar Type II Cells Following Lipopolysaccharide or Silica Exposure: A Comparative Study 185
R. S. Kanj, J. L. Kang, and V. Castranova

The Presence of Dialkylphosphates in Fresh Fruit Juices: Implication for Organophosphorus Pesticide Exposure and Risk Assessments 209
C. Lu, R. Bravo, L. M. Caltabiano, R. M. Irish, G. Weerasekera, and D. B. Barr

Ring-Oxidized Metabolites of Styrene Contribute to Styrene-Induced Clara-Cell Toxicity in Mice 229
George Cruzan, Gary P. Carlson, Meredith Turner, and Werner Mellert

Volume 68, Issue 4

Estrogenic Activity of Cosmetic Components in Reporter Cell Lines: Parabens, UV Screens, and Musks 239
E. Gomez, A. Pillon, H. Fenet, D. Rosain, M. J. Duchesne, J. C. Nicolas, P. Balaguer, and C. Casellas

Effect of Cooking on the Loss of Persistent Organic Pollutants from Salmon 253
Stéphane Bayen, Philip Barlow, Hian Kee Lee, and Jeffrey Philip Obbard

Oxidative Stress and Sex Steroid Levels in Fish Following Short-Term Exposure to Pulp-Mill Effluents 267
Ken D. Oakes, L. Mark Hewitt, Mark E. McMaster, Craig Wood, Kelly R. Munkittrick, and Glen J. Van Der Kraak

Characterization of the Metabolic Interaction between Trihalomethanes and Chloroacetic Acids Using Rat Liver Microsomes 287
Annie St-Pierre, Kannan Krishnan, and Robert Tardif

Metabolism of Territrem B and C in Liver Microsomes from 14-wk-old Wistar Rats is Catalyzed by Cytochrome P-450 3A 299
Fu-Chuo Peng, Pei-Chun Chen, Yea-Jen Jeng, and Robert J. Edwards

Volume 68, Issue 5

Seasonal Changes in Poisoning Exposures Reported to a Regional Poison Center from Coastal Resort Areas 315
Zdravko P. Vassilev and Steven M. Marcus

Decreasing Trend in Renal Disease Mortality after Cessation from Arsenic Exposure in a Previous Arseniasis-endemic Area in Southwestern Taiwan 319
Hui-Fen Chiu and Chun-Yuh Yang

Comparison of Tissue Dosimetry in the Mouse Following Chronic Exposure to Arsenic Compounds 329
P. Robinan Gentry, Tammie R. Covington, Greg Lawrence, Tracy McDonald, Elizabeth T. Snow, Dori Germolec, Glenda Moser, Janice W. Yager, and Harvey J. Clewell III

Prevention of Zearalenone-induced Hyperestrogenism in Prepubertal Mice 353
Evans Afriyie-Gyawu, Melinda C. Wiles, Henry J. Huebner, Molly B. Richardson, Christie Fickey, and Timothy D. Phillips

Effects of Maternal Versus Direct Exposure to Pulp and Paper Mill Effluent on Rainbow Trout Early Life Stages 369
Rosanne J. Ellis, Michael R. van den Heuvel, Murray A. Smith, and Nicholas Ling

Antioxidant Activity of Isoacteoside from *Clerodendron trichotomum* 389
Sungwook Chae, Ju Sun Kim, Kyoung Ah Kang, Hyung Deuk Bu, Youngki Lee, Young Rok Seo, Jin Won Hyun, and Sam Sik Kang

Volume 68, Issue 6

Airborne Exposure to Trihalomethanes from Tap Water in Homes with Refrigeration-type and Evaporative Cooling Systems 401
Brent D. Kerger, David R. Suder, Chuck E. Schmidt, and Dennis J. Paustenbach

Diesel Exhaust Particulate Matter Dispersed in a Phospholipid Surfactant Induces Chromosomal Aberrations and Micronuclei but Not 6-Thioguanine-resistant Gene Mutation in V79 Cells 431
Zu-Wei Gu, Michael J. Keane, Tong-man Ong, and William E. Wallace

JWA—A Novel Environmental-responsive Gene, Involved in Estrogen Receptor-associated Signal Pathway in MCF-7 and MDA-MB-231 Breast Carcinoma Cells 445
Rui Chen, Aiping Li, Ting Zhu, Chunping Li, Qizhan Liu, Hebron C. Chang, and Jianwei Zhou

Does High Organochlorine (OC) Exposure Impair the Resistance to Infection in Polar Bears *(Ursus maritimus)*? Part II: Possible Effect of OCs on Mitogen- and Antigen-induced Lymphocyte Proliferation 457
Elisabeth Lie, Hans Jørgen S. Larsen, Stig Larsen, Grethe Marie Johansen, Andrew E. Derocher, Nicholas J. Lunn, Ross J. Norstrom, Øystein Wiig, and Janneche Utne Skaare

Effects of PCB 126 on Primary Immune Organs and Thymocyte Apoptosis in Chicken Embryos 485
Kendra F. Goff, Barbara E. Hull, and Keith A. Grasman

Volume 68, Issue 7

Polybrominated Diphenyl Ethers (PBDEs) in U.S. Computers and Domestic Carpet Vacuuming: Possible Sources of Human Exposure 501
Arnold Schecter, Olaf Päpke, Jean Elizabeth Joseph, and Kuang-Chi Tung

Effects of Pentabrominated Diphenyl Ether (PBDE-99) on Vitamin Status in Domestic Duck *(Anas Platyrhynchos)* Hatchlings 515
Kari Mette Murvoll, Bjorn Munro Jenssen, and Janneche Utne Skaare

Mercury Impairment of Mouse Thymocyte Survival in Vitro: Involvement of Cellular Thiols 535
Tapan K. Mondal, Daming Li, Kamal Swami, J. Kenneth Dean, Charles Hauer, and David A. Lawrence

Effects of Nonylphenol on Rates of Tail Resorption and Metamorphosis in *Rana Catesbeiana* Tadpoles 557
Jennie R. Christensen, John S. Richardson, Christine A. Bishop, Bruce Pauli, and John Elliott

Volume 68, Issue 8

Review and Analysis of Inhalation Dosimetry Methods for Application to Children's Risk Assessment 573
Gary L. Ginsberg, Brenda Perkovich Foos, and Michael P. Firestone

Contaminant Loads and Hematological Correlates in the Harbor Seal *(Phoca Vitulina)* of San Francisco Bay, California 617
J. C. C. Neale, F. M. D. Gulland, K. R. Schmelzer, J. T. Harvey, E. A. Berg, S. G. Allen, D. J. Greig, E. K. Grigg, and R. S. Tjeerdema

PCBs and TCDD, Alone and in Mixtures, Modulate Marine Mammal but not B6C3F1 Mouse Leukocyte Phagocytosis 635
Milton Levin, Brenda Morsey, Chiharu Mori, Prashant R. Nambiar, and Sylvain De Guise

Iron Release and Oxidative DNA Damage in Splenic Toxicity of Aniline 657
Xiaohong Wu, Subburaj Kannan, V. M.-Sadagopa Ramanujam, and M. Firoze Khan

In Vitro Conjugation of Ethanolamine with Fatty Acids by Rat Liver Subcellular Fractions 667
Shagufta H. Khan, Bhupendra S. Kaphalia, and G. A. S. Ansari

A Comparison of the Potency of Newly Developed Oximes (K005, K027, K033, K048) and Currently used Oximes (Pralidoxime, Obidoxime, HI-6) to Reactivate Sarin-inhibited Rat Brain Acetylcholinesterase by in Vitro Methods 677
Kamil Kuca, Jiri Cabal, and Jiri Kassa

Volume 68, Issue 9

Rapid Communication: Organohalogen Levels in Harbor Seal *(Phoca vitulina)* Pups Increase with Duration of Nursing 687
Jennifer C. C. Neale, Kara R. Schmelzer, Frances M. D. Gulland, Elizabeth A. Berg, and Ronald S. Tjeerdema

Toxicity Induced by the Chemical Carcinogen 7,12-Dimethylbenz[a]anthracene and the Protective Effects of Selenium in Wistar Rats 693
Hilal Kocdor, Ruksan Cehreli, Mehmet Ali Kocdor, Banu Sis, Osman Yilmaz, Tulay Canda, Binnaz Demirkan, Halil Resmi, Mehmet Alakavuklar, and Omer Harmancioglu

Expression of Stress-related Genes in a Cadmium-resistant A549 Human Cell Line 703
Françoise Croute, Bernadette Beau, Jean-Claude Murat, Christian Vincent, Hiroyoshi Komatsu, Fumiya Obata, and Jean-Pierre Soleilhavoup

Effect of In Vivo Jet Fuel Exposure on Subsequent In Vitro Dermal Absorption of Individual Aromatic and Aliphatic Hydrocarbon Fuel Constituents 719
F. Muhammad, N. A. Monteiro-Riviere, R. E. Baynes, and J. E. Riviere

Cylindrospermopsin Genotoxicity and Cytotoxicity: Role of Cytochrome P-450 and Oxidative Stress 739
Andrew R. Humpage, Frank Fontaine, Suzanne Froscio, Philip Burcham, and Ian R. Falconer

Volume 68, Issue 10

Association Between Sociodemographic Factors and Exposures and Utilization of Poison Centers in Texas, 1998–2002 755
Mathias B. Forrester

Exposure to Low Concentrations of Di-n-butyl Phthalate During Embryogenesis Reduces Survivability and Impairs Development of *Xenopus Laevis* Frogs 763
Shannon K. Lee, Gwen A. Owens, and D. N. Rao Veeramachaneni

Inhalation of Concentrated Particulate Matter Produces Pulmonary Inflammation and Systemic Biological Effects in Compromised Rats 773
Flemming R. Cassee, A. John F. Boere, Paul H. B. Fokkens, Daan L. A. C. Leseman, Constantinos Sioutas, Ingeborg M. Kooter, and Jan A. M. A. Dormans

The Effects of Carbon Disulfide and Ethanol on the Circulatory System of Rats 797
Veronika Morvai, Éva Szakmáry, and György Ungváry

Biomonitoring of The Genotoxic Potential of Draining Water from Dredged Sediments, Using the Comet and Micronucleus Tests on Amphibian *(Xenopus Laevis)* Larvae and Bacterial Assays (Mutatox® and Ames Tests) 811
F. Mouchet, L. Gauthier, C. Mailhes, M. J. Jourdain, V. Ferrier, and A. Devaux

Volume 68, Issue 11–12

Introduction 833
John C. Lipscomb, David Mattie, and Darol E. Dodd,

Risk Assessment for Benefits Analysis: Framework for Analysis of a Thyroid-Disrupting Chemical 837
Daniel A. Axelrad, Karl Baetcke, Chris Dockins, Charles W. Griffiths, Richard N. Hill, Patricia A. Murphy, Nicole Owens, Nathalie B. Simon, and Linda K. Teuschler

Prioritizing Industrial Chemical Hazards 857
Veronique D. Hauschild and Gary M. Bratt

Issues with the Integration of TechnicaL Information in Planning for and Responding to Nontraditional Disasters 877
Warren W. Jederberg

Computational Pharmacokinetics During Developmental Windows of Susceptibility 889
Hugh A. Barton

Acute Health Reference Values: Overview, Perspective, and Current Forecast of Needs 901
George M. Woodall

Moving from External Exposure Concentration to Internal Dose: Duration Extrapolation Based on Physiologically Based Pharmacokinetic Derived Estimates of Internal Dose 927
Jane Ellen Simmons, Marina V. Evans, and William K. Boyes

Effects of Depleted Uranium on Survival, Growth, and Metamorphosis in the African Clawed Frog *(Xenopus laevis)* 951
Sarah E. Mitchell, Colleen A. Caldwell, Gil Gonzales, William R. Gould, and Richard Arimoto

Study of the Reproductive Effects in Rats Surgically Implanted with Depleted Uranium for up to 90 Days 967
D. P. Arfsten, M. Bekkedal, E. R. Wilfong, J. Rossi III, K. A. Grasman, L. B. Healey, J. M. Rutkiewicz, E. W. Johnson, A. R. Thitoff, A. E. Jung, S. R. Lohrke, D. J. Schaeffer, and K. R. Still

Abrasive Blasting Agents: Designing Studies to Evaluate Relative Risk 999
Ann Hubbs, Mark Greskevitch, Eileen Kuempel, Fernando Suarez, and Mark Toraason

Addressing Residual Risk Issues at Anthrax Cleanups: How Clean is Safe? 1017
Dorothy A. Canter

Estimating the Frequency of Tap-Water Exposures to *Mycobacterium avium* Complex in the U.S. Population with Advanced Aids 1033
Glenn Rice, J. Michael Wright, Brenda Boutin, Jeff Swartout, Pam Rodgers, Nancy Niemuth, and Michael Brode

Volume 68, Issue 13–14

Interpreting Epidemiological Studies of Acuteand Long-Term Exposure to Particulate Matter for Policy Development

Preface 1049
Daniel Krewski, Jonathan M. Samet, and Lorraine Craig

Identification of Key Policy Needs

Perspectives on Air Quality Policy Issues in Europe and North America 1057
Michal Krzyzanowski, John Vandenberg, and Dave Stieb

The Perspective of the National Research Council's Committee on Research Priorities for Airborne Particulate Matter 1063
Jonathan M. Samet

Analytic Issues in Time-Series and Cohort Studies

Revised Analyses of the National Morbidity, Mortality, and Air Pollution Study: Mortality Among Residents of 90 Cities 1071
Francesca Dominici, Aidan McDermott, Michael Daniels, Scott L. Zeger, and Jonathan M. Samet

Mortality and Long-term Exposure to Ambient Air Pollution: Ongoing Analyses Based on the American Cancer Society Cohort 1093
Daniel Krewski, Richard Burnett, Michael Jerrett, C. Arden Pope,Daniel Rainham, Eugenia Calle, George Thurston, and Michael Thun

A New Longitudinal Design for Identifying Subgroups of The Population who are Susceptible to the Short-term Effects of Ambient Air Pollution 1111
Mark S. Goldberg and Richard T. Burnett

Acute Air Pollution Effects: Consequences of Exposure Distribution and Measurements 1127
Lianne Sheppard

Testing the Harvesting Hypothesis by Time-domain Regression Analysis. I: Baseline Analysis 1137
Karen Fung, Daniel Krewski, Rick Burnett, and Francesca Dominici

Testing the Harvesting Hypothesis by Time-Domain Regression Analysis. II: Covariate Effects 1155
Karen Fung, Daniel Krewski, Rick Burnett, Tim Ramsay, and Yue Chen

Why Do Estimates of the Acute and Chronic Effects of Air Pollution on Mortality Differ? 1167
Duncan Thomas

Air Pollution Mortality: Harvesting and Loss of Life Expectancy 1175
Ari Rabl

Designs for Studies of Personal Exposure to Air Pollution and the Impact of Measurement Error 1181
Daniel O. Stram

Unifying Analytic Approaches and Future Directions

Multisite Time-Series Studies Versus Cohort Studies: Methods, Findings, and Policy Implications 1191
Sorina Eftim and Francesca Dominici

Geographies of Risk in Studies Linking Chronic Air Pollution Exposure to Health Outcomes 1207
Michael Jerrett and Murray Finkelstein

The Role of GIS: Coping with Space (and Time) in Air Pollution Exposure Assessment 1243
David Briggs

Unifying Susceptibility, Exposure, and Time: Discussion of Unifying Analytic Approaches and Future Directions 1263
Nino Künzli

Population Health Impacts of Urban Air Pollution

Estimating the Public Health Burden Attributable to Air Pollution: An Illustration Using the Development of an Alternative Air Quality Index 1275
David M. Stieb, Marc Smith Doiron, Philip Blagden, and Richard T. Burnett

Measuring Progress in the Management of Ambient Air Quality: The Case for Population Health 1289
Richard T. Burnett, Sheryl Bartlett, Barry Jessiman, Philip Blagden, Paul R. Samson, Sabit Cakmak, Dave Stieb, Mark Raizenne, Jeffrey R. Brook, and Tom Dann

The Global Burden of Disease Due to Outdoor Air Pollution 1301
Aaron J. Cohen, H. Ross Anderson, Bart Ostro, Kiran Dev Pandey, Michal Krzyzanowski, Nino Künzli, Kersten Gutschmidt, Arden Pope, Isabelle Romieu, Jonathan M. Samet, and Kirk Smith

Volume 68, Issue 15

Impact of In ovo-Administered Lead and Testosterone on Developing Female Thymocytes 1309
Irshad Hussain, Michael S. Piepenbrink, and Rodney R. Dietert

Comparison of Immunomodulator mRNA and Protein Expression in the Lungs of *Stachybotrys chartarum* Spore-exposed Mice 1321
B. Hudson, J. Flemming, G. Sun, and T. G. Rand

The Release of Nerve Growth Factor from the Nasal Mucosa following Toluene Diisocyanate 1337
Erin R. Wilfong and Richard D. Dey

Food Avoidance Behavior to Dietary Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) Exposure in the Northern Bobwhite (*Colinus virginianus*) 1349
Mark S. Johnson, Robert M. Gogal Jr., and Calvert T. Larsen

Phenoxyacetic Acid Herbicide Exposure for Women on Ontario Farms 1359
Tye E. Arbuckle and Len Ritter

Volume 68, Issue 16

Turkish Coffeehouse "Kahvehane" is an Important Tobacco Smoke Exposure Area in Turkey 1371
Fatma Fidan, Hulya Guven, Ozlem Eminoglu, Sule Kalkan, Gul Ergor, and Arif Cimrin

Human Monitoring of Phthalates and Risk Assessment 1379
Hyun Jung Koo and Byung Mu Lee

Physiologically Based Modeling of the Accumulation in Plasma and Tissue Lipids of a Mixture of PCB Congeners in Female Sprague-Dawley Rats 1393
Claude Emond, Michel Charbonneau, and Kannan Krishnan

Biochemical Markers of Neurotoxicity in Wildlife and Human Populations: Considerations for Method Development 1413
Christopher J. Stamler, Niladri Basu, and Hing Man Chan

Influence of Synthetic and Natural Food Dyes on Activities of CYP2A6, UGT1A6, and UGT2B7 1431
Nayumi Kuno and Takaharu Mizutani

Volume 68, Issue 17–18

Overview of Research Activities of the Toxicology and Environmental Health Communities of Taiwan
Preface 1445

Serum Hormones in Boys Prenatally Exposed to Polychlorinated Biphenyls and Dibenzofurans 1447
Ping-Chi Hsu, Te-Jen Lai, Nai-Wen Guo, George H. Lambert, and Yueliang Leon Guo

Effects of Asian Dust Storm Events on Daily Hospital Admissions for Cardiovascular Disease in Taipei, Taiwan 1457
Yong-Shing Chen and Chun-Yuh Yang

Adverse Respiratory and Irritant Health Effects in Temple Workers in Taiwan 1465
Chi-Kung Ho, Wei-Rong Tseng, and Chun-Yuh Yang

Genetic Polymorphisms of Oxidative and Antioxidant Enzymes and Arsenic-Related Hypertension 1471
Yu-Mei Hsueh, Pinpin Lin, Hui-Wen Chen, Horng-Sheng Shiue, Chi-Jung Chung, Chiao-Tzu Tsai, Yung-Kay Huang, Hung-Yi Chiou, and Chien-Jen Chen

Estimation of Burden of Lead for Offspring of Female Lead Workers: A Quality-Adjusted Life Year (QALY) Assessment 1485
Hung-Yi Chuang, Kun-Yu Chao, and Jung-Der Wang

Oxidative Status in Patients with Alcohol Dependence: A Clinical Study in Taiwan 1497
Fu-Chuo Peng, Sheng-Hui Tang, Ming-Chi Huang, Chiao-Chicy Chen, Tsung-Li Kuo, and Shih-Jiun Yin

Effects of pH on Nicotine-Induced DNA Damage and Oxidative Stress 1511
Hui-Ju Wu, Chin-Wen Chi, and Tsung-Yun Liu

Cooking Oil Fumes Improve Lung Adenocarcinoma Cell Survival Through c-IAP2 Induction 1525
Huey-Shan Hung, Wen-Jun Wu, Ya-Wen Cheng, Ming-Fan Wu, Kee-Lung Chang, and Huei Lee

Motorcycle Exhaust Particles Induce IL-8 Production Through NF-κB Activation in Human Airway Epithelial Cells 1537
Chen-Chen Lee, Yu-Wen Cheng, and Jaw-Jou Kang

The Abortifacient Effects from the Seeds of *Coix lachryma-jobi* L. Var. *ma-yuen* Stapf 1557
Hui-Ping Tzeng, Wenchang Chiang, Tzuu-Huei Ueng, and Shing-Hwa Liu

A Histochemical and Pathological Study on the Interrelationship Between TCDD-induced AhR Expression, AhR Activation, and Hepatotoxicity in Mice 1567
H. Chang, Ying-Jan Wang, Louis W. Chang, and Pinpin Lin

Induction of Rat Hepatic Cytochrome P-450 by Ketamine and its Toxicological Implications 1581
Wei-Hung Chan, Wei-Zen Sun, and Tzuu-Huei Ueng

Volume 68, Issue 19

Age-related Changes in Oxidative DNA Damage and Benzo(a)pyrene Diolepoxide-I (BPDE-I)–DNA Adduct Levels in Human Stomach 1599
Byung Mu Lee, Seung Jun Kwack, and Hyung Sik Kim

Alteration of Cytochrome P-450 and Glutathione S-Transferase Activity in Normal and Malignant Human Stomach 1611
Hyung Sik Kim, Seung Jun Kwack, and Byung Mu Lee

Further Insights into the Potential of Pulp and Paper Mill Effluents to Affect Fish Reproduction 1621
Tibor Kovacs, Pierre Martel, Maria Ricci, Jessica Michaud, and Ron Voss

Inhibition of SRC Tyrosine Kinases Suppresses Activation of Nuclear Factor-κB, and Serine and Tyrosine Phosphorylation of IκB-α in Lipopolysaccharide-Stimulated Raw 264.7 Macrophages 1643
Jihee Lee Kang, Hye Won Lee, Hee Jae Kim, Hui Su Lee, Vincent Castranova, Chae-Man Lim, and Younsuck Koh

Addition of Calcite Reduces Iron's Bioavailability in the Pennsylvania Coals—Potential Use of Calcite for the Prevention of Coal Workers' Lung Diseases 1663
Qi Zhang and Xi Huang

Volume 68, Issue 20

Preface: Workshop on Human Milk Surveillance and Research on Environmental Chemicals in the United States 1681
Judy S. LaKind

Overview: Technical Workshop on Human Milk Surveillance and Biomonitoring for Environmental Chemicals in the United States 1683
Judy S. LaKind, Cheston M. Berlin, Jr., and Michael N. Bates

Collection and Use of Exposure Data from Human Milk Biomonitoring in the United States 1691
Suzanne E. Fenton, Marian Condon, Adrienne S. Ettinger, Judy S. LaKind, Ann Mason, Melissa McDiarmid, Zhengmin Qian, and Sherry G. Selevan

Human Milk Biomonitoring Data: Interpretation and Risk Assessment Issues 1713
Judy S. LaKind, Robert L. Brent, Michael L. Dourson, Sam Kacew, Gideon Koren, Babasaheb Sonawane, Anita J. Tarzian, and Kathleen Uhl

Human Milk Research for Answering Questions about Human Health 1771
Richard Y. Wang, Michael N. Bates, Daniel A. Goldstein, Suzanne G. Haynes, Karen D. Hench, Ruth A. Lawrence, Ian M. Paul, and Zhengmin Qian

Methodologic Considerations for Improving and Facilitating Human Milk Research 1803
Cheston M. Berlin, Jr., Betty L. Crase, Peter Fürst, Judy S. LaKind, Gerry Moy, Larry L. Needham, Linda C. Pugh, and Mary Rose Tully

Conclusions and Recommendations of the Expert Panel: Technical Workshop on Human Milk Surveillance and Biomonitoring for Environmental Chemicals in the United States 1825
Cheston M. Berlin, Jr., Judy S. LaKind, Suzanne E. Fenton, Richard Y. Wang, Michael N. Bates, Robert L. Brent, Marian Condon, Betty L. Crase, Michael L. Dourson, Adrienne S. Ettinger, Brenda Foos, Peter Fürst, George P. Giacoia, Daniel A. Goldstein, Suzanne G. Haynes, Karen D. Hench, Sam Kacew, Gideon Koren, Ruth A. Lawrence, Ann Mason, Melissa A. McDiarmid, Gerald Moy, Larry L. Needham, Ian M. Paul, Linda C. Pugh, Zhengmin Qian, Lee Salamone, Sherry G. Selevan, Babasaheb Sonawane, Anita J. Tarzian, Mary Rose Tully, and Kathleen Uhl

Volume 68, Issue 21

Effect of Estrogen Receptor (ER) on Benzo[a]pyrene–DNA Adduct Formation in Human Breast Cancer Cells 1833
Se Chan Kang and Byung Mu Lee

Chemopreventive Effects of Aloe Against Genotoxicity Induced by Benzo[a]pyrene 1841
Eun Jeong Yoo and Byung Mu Lee

Flaxseed Oil and Bone Development in Growing Male and Female Mice 1861
Stacey L. Cohen and Wendy E. Ward

Profile of Territrem Metabolism and Cytochrome P-450 3A Expression in Liver Microsomes from Wistar Rats of Both Genders as a Function of Age 1871
Fu-Chuo Peng, Wen-Chi Jian, and Robert J. Edwards

Physical and Chemical Characterization of Beryllium Particles from Several Workplaces in Québec, Canada—Part A: Determining Methods for the Analysis of Low Levels of Beryllium 1889
Mathieu Rouleau, Chantal Dion, Philippe Plamondon, Greg Kennedy, Gilles L'Espérance, and Joseph Zayed

Physical and Chemical Characterization of Beryllium Particles from Several Workplaces in Québec, Canada—Part B: Time-of-flight Secondary-ion Mass Spectroscopy 1907
Mathieu Rouleau, Chantal Dion, Philippe Plamondon, Gilles L'Espérance, and Joseph Zayed

Volume 68, Issue 22

Enantioselective and Gender-Dependent Depletion of Chlordane Compounds from Rat Tissues 1917
Genevieve S. Bondy, Laurie Coady, Josée Doucet, Cheryl Armstrong, Robert Kriz, Virginia Liston, Patrick Robertson, Ross Norstrom, and John Moisey

The Bipyridyl Herbicide Paraquat Produces Oxidative Stress-Mediated Toxicity in Human Neuroblastoma SH-SY5Y Cells: Relevance to the Dopaminergic Pathogenesis 1939
Wonsuk Yang and Evelyn Tiffany-Castiglioni

Cholestyramine Feeding Lowers Number of Colonic Apoptotic Cells in Rat 1963
Leon Lack, Hagir B. Suliman, Ali A. Rahman, and Mohammed B. Abou-Donia

Non-Coplanar PCB-Mediated Modulation of Human Leukocyte Phagocytosis: A New Mechanism for Immunotoxicity 1977
Milton Levin, Brenda Mcrsey, Chiharu Mori, Prashant R. Nambiar, and Sylvain De Guise

Volume 68, Issue 23–24

DNA Methylation of Estrogen Receptor α Gene by Phthalates 1995
Se Chan Kang and Byung Mu Lee

β-Carboline Alkaloid Suppresses NF-κB Transcriptional Activity Through Inhibition of IKK Signaling Pathway 2005
Jong Woo Yoon, Jae Ku Kang, Kang Ro Lee, Hyang Woo Lee, Jeung Whan Han, Dong Wan Seo, and Yong Kee Kim

Mechanism of NF-κB Activation Induced by γ-irradiation in B Lymphoma Cells : Role of Ras 2019
Hyun-Sook Rho, Seol-Hee Kim, and Choong-Eun Lee

In Vivo and In Vitro Immunosuppressive Effects of Benzo[k]fluoranthene in Female Balb/c Mice 2033
Tae Won Jeon, Chun Hua Jin, Sang Kyu Lee, Dong Wook Lee, Sun Hee Hyun, Ghee Hwan Kim, In Hye Jun, Byung Mu Lee, Young Na Yum, Jun Kyou Kim, Ok Hee Kim, and Tae Cheon Jeong

Effect of Alpha-Tocopherol on the Expression of Hepatic Vascular Stress Genes in Response to Sepsis 2051
Joo-Young Kim and Sun-Mee Lee

Eupatilin Blocks Mediator Release Via Tyrosine Kinase Inhibition in Activated Guinea Pig Lung Mast Cells 2063
Ji Young Kim, Eun Young Kwon, Yun Song Lee, Won Bae Kim, and Jai Youl Ro

Effects of Chemical Carcinogens and Physicochemical Factors on the UV Spectrophotometric Determination of DNA 2081
Hyung Sik Kim, Soo Hyun Byun, and Byung Mu Lee

Comparative Mutagenicity of Apicidin and Apicidin Derivatives (SD-0203 and SD-2007), Histone Deacetylase Inhibitors 2097
Eun Jeong Yoo and Byung Mu Lee

Genotoxic Evaluation of the Biocomponents of the Cricket, *Gryllus Bimaculatus*, Using Three Mutagenicity Tests 2111
Mi Young Ahn, Hye Jin Bae, In Sun Kim, Eun Jeong Yoo, Seung Jun Kwack, Hyung Sik Kim, Dong Hyun Kim, Kang Sun Ryu, Hee Sam Lee, Jin Won Kim, Iksoo Kim, and Byung Mu Lee

Suppression of Inducible Nitric Oxide Synthase and Cyclooxygenase-2 Expression in Raw 264.7 Macrophages by Sesquiterpene Lactones 2119
Sang Gyu Shin, Jae Ku Kang, Kang Ro Lee, Hyang Woo Lee, Jeung Whan Han, and Wahn Soo Choi

Methamphetamine Administration Produces Immunomodulation in Mice 2133
Sang-Whan In, Eun-Wha Son, Dong-Kwon Rhee, and Suhkneung Pyo

Neurotoxic Effects of Alcohol and Acetaldehyde During Embryonic Development 2147
Rhee Da Lee, Sang Mi An, Soon Sun Kim, Gyu Seek Rhee, Seung Jun Kwack, Ji Hyun Seok, Soo Yeong Chae, Chul Hoon Park, Yo Woo Choi, Hyung Sik Kim, Hong Yon Cho, Byung Mu Lee, and Kui Lea Park

Increases In [^{3}H]-α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptor Binding and mRNA Expression of Ampa-Sensitive Glutamate Receptor A (GluR-A) Subunits in Rats Withdrawn From Butorphanol 2163
Seok-Yong Lee and Choon-Gon Jang

Pyrethroid Insecticides, Fenvalerate and Permethrin, Inhibit Progesterone-Induced Alkaline Phosphatase Activity in T47D Human Breast Cancer Cells 2175
In Young Kim, Soon Young Han, Tae Seok Kang, Byung Mu Lee, Kwang Sik Choi, Hyun Ju Moon, Tae Sung Kim, Il Hyun Kang, Seung Jun Kwack, Aree Moon, Mee Young Ahn, and Hyung Sik Kim

Role of Metabolism in Parathion-Induced Hepatotoxicity and Immunotoxicity 2187
Dae Ok Kim, Sang Kyu Lee, Tae Won Jeon, Chun Hua Jin, Sun Hee Hyun, Eun Jung Kim, Gui Im Moon, Jung-Ae Kim, Eung Seok Lee, Byung Mu Lee, Hye Gwang Jeong, and Tae Cheon Jeong

In Vitro Investigation of the Hepatic Intrinsic Clearance of Apicidin, A Histone Deacetylase Inhibitor, in Mouse, Rat, and Human, with Correction by Nonspecific Protein Binding 2207
Beom Soo Shin, Eun Hye Park, Chi Ho Yoon, John Kim, Okpyo Zee, and Sun Dong Yoo

Altered Oral Absorption of Alcohol by Combined Aqueous Extracts of Four Herbal Plants in Rats 2219
Beom Soo Shin, Hun Jun, Dong-Eok Lee, Kang Ro Lee, Eun Seok Park, and Sun Dong Yoo

Effects of Aloe, Aloesin, or Propolis on the Pharmacokinetics of Benzo[a]pyrene and 3-OH-Benzo[a]pyrene in Rats 2227
Dianxiu Cao, Chi Ho Yoon, Beom Soo Shin, Chul Hwan Kim, Eun Seok Park, and Sun Dong Yoo

Pharmacokinetics of Lithospermic Acid B Isolated from *Salvia Miltiorrhiza* in Rats 2239
Hui Hyun Kim, John Kim, Hye Young Ji, Yoon Chul Kim, Dong Hwan Sohn, Byung Mu Lee, and Hye Suk Lee

Validation Study of OECD Rodent Uterotrophic Assay for the Assessment of Estrogenic Activity in Sprague-Dawley Immature Female Rats 2249
Hyung Sik Kim, Tae Seok Kang, Il Hyun Kang, Tae Sung Kim, Hyun Ju Moon, In Young Kim, Hoyun Ki, Kui Lea Park, Byung Mu Lee, Sun Dong Yoo, and Soon-Young Han

Multigeneration Reproductive and Developmental Toxicity Study of bar Gene Inserted into Genetically Modified Potato on Rats 2263
Gyu Seek Rhee, Dae Hyun Cho, Yong Hyuck Won, Ji Hyun Seok, Soon Sun Kim, Seung Jun Kwack, Rhee Da Lee, Soo Yeong Chae, Jae Woo Kim, Byung Mu Lee, Kui Lea Park, and Kwang Sik Choi

Assessment of Estrogenic and Androgenic Activities of Tetramethrin in Vitro and In Vivo Assays 2277
Soon Sun Kim, Seung Jun Kwack, Rhee Da Lee, Kwon Jo Lim, Gyu Seek Rhee, Ji Hyun Seok, Byung Ho Kim, Yong-Hyuck Won, Geun-Shik Lee, Eui-Bae Jeung, and Kui-Lea Park

Following page: 2290
Title page to Volume 68
Author Index to Volume 68
Tables of Contents to Volume 68